

CLAIMS

1 1. A method comprising:
2 creating, for every event to be logged within an
3 application, an event object, said event object occupying a
4 memory space and executing independent of said application; and
5 logging within said event object the start time, end time
6 and information regarding the event.

1 2. A method according to claim 1 further comprising:
2 checking, for each event identified by the application,
3 whether event logging has been turned on.

1 3. A method according to claim 2 further wherein said
2 creating and said logging are performed for each event having
3 event logging turned on.

1 4. A method according to claim 3 further comprising:
2 analyzing of said event objects after event logging is
3 turned off.

1 5. A method according to claim 4 wherein analyzing
2 includes:
3 allowing user definition the hierarchical levels of
4 granularity of said events whose event objects are to be
5 analyzed; and
6 allowing user definition of contexts for differentiating
7 repeated occurrences of events deemed identical by nature of
8 their hierarchical position.

1 6. A method according to claim 5 wherein analyzing further
2 includes:

3 grouping events into their hierarchical subgroups; and
4 grouping events by their context, if any are defined.

1 7. A method according to claim 6 wherein analyzing
2 comprises:

3 traversing through the hierarchy of subgroups until the
4 subgroup of finest granularity is traversed;
5 subdividing said events into further subgroups;
6 computing statistics for each subgroup while traversing; and
7 displaying said statistics.

1 8. A method according to claim 7 wherein if said subgroup
2 of finest granularity has been traversed, then:

3 aggregating events deemed identical by virtue of their
4 hierarchical position into an aggregate;
5 computing statistics for each aggregate; and
6 displaying said statistics for each said aggregate.

1 9. A method according to claim 7 wherein said analyzing
2 includes:

3 aggregating events deemed identical by virtue of their
4 context into an aggregate;
5 computing statistics for each aggregate; and
6 displaying said statistics for each said aggregate.

1 10. A system comprising:

2 a foundational layer upon which applications are built and
3 executed; and

4 an event logging mechanism operating independent of said
5 applications, said mechanism capable of being utilized by any of
6 said applications.

1 11. A system according to claim 10 wherein said event
2 logging mechanism logs start time, end time and other event
3 information into an event object for every event to be logged.

1 12. A system according to claim 10 wherein said
2 foundational layer is an operating system.

1 13. A system according to claim 10 wherein said
2 foundational layer is a programmable framework.

1 14. A system according to claim 11 wherein said event
2 logging mechanism can be turned on and then off from beyond the
3 execution space of said applications within said layer, said
4 turning on and off separate for each event.

1 15. A system according to claim 10 wherein said event
2 logging mechanism can be turned on and turned off and configured
3 using a browser application.

1 16. A system according to claim 15 wherein said event
2 logging mechanism is configured to analyze said event objects and
3 present to said browser application the results thereof.

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22. An apparatus according to claim 21 further comprising:
means for analyzing of said event objects according to
hierarchical and contextual grouping.

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